

FIGURE 1

CGAAAAGAAAAAATGGCTTTGAATTTTAATGCCATCGCCTCGAAATCTCAGAAGCTCCCT 60  
M A L N F N A I A S K S Q K L P  
TGCTTTGCTCTTCCACCAAAGGCCACCCTTAGATCTCCCAAGTTTTCCATGATCTCCACC 120  
C F A L P P K A T L R S P K F S M I S T  
ATTCTTCTGGCTCCAAAGAGGTTGGGAATCTGAAAAAGCCTTTCACGCTCCAAAGGAG 180  
I P S G S K E V G N L K K P F T P P K E  
GTGCCTGTTTCAGATCACCCACTCCATGCCGCTCACAAGATTGAGATCTTTAAATCTTTG 240  
V P V Q I T H S M P P H K I E I F K S L  
GAGGGCTGGGCTGAGAACAACATTCTGACTCACCTCAAACCAAGTTGAGAAATGTTGGCAA 300  
E G W A E N N I L T H L K P V E K C W Q  
CCCGCCGACTTTCTTCCAGATCCTAATTCTGATGGATTTCATGAGCAAGTCAAAGAGCTT 360  
P A D F L P D P N S D G F H E Q V K E L  
AGGGAAAGGGCAAAGGAGATCCAGATGATTACTTTGTAGTTTTGGTTGGTGATATGATC 420  
R E R A K E I P D D Y F V V L V G D M I  
ACCGAGGAAGCCCTTTCAACTTATCAAACAATGCTTAATACCTTGGATGGAACCTCGTGAT 480  
T E E A L S T Y L S T M L N T L D G T R D  
GAGACAGGTCCTAGCCTTACCCCTTGGGCCATTTGGACCAGGGCTTGGACTGCTGAAGAA 540  
E T G A S L T P W A I W T R A W T A E E  
AACAGGCATGGTGATCTGCTTAATAAGTATCTCTACTTGTCTGGGAGAGTGGACATGAGG 600  
N R H G D L L N K Y L Y L S G R V D M R  
CAAATTGAGAGGACAATCCAGTACTTGATTGGATCGGGAATGGATCCTCATACAGAGAAT 660  
Q I E R T I Q Y L I G S G M D P H T E N  
AGTCCTTACCGAGGATTCATATATACTTCGTTCCAAAGAAAGGGCAACTTTTATTTCCCAT 720  
S P Y R G F I Y T S F Q E R A T F I S H  
GGGAATACAGGCAGGCTGGCTAAGGAGTATGGGGATATTAAGTGGCTCAAATTTGTGGT 780  
G N T G R L A K E Y G D I N L A Q I C G  
AGCATTGCCTCAGATGAGAAGCGCCACGAGACAGCCTATACCAAATCGTTGAAAAGCTG 840  
S I A S D E K R H E T A Y T K I V E K L  
TTTGAGATTGATCCTGATGAAACAGTCCTGGCATTGCTGACATGATGAAGAAGAAAATC 900  
F E I D P D E T V L A F A D M M K K K I  
GCCATGCCGGCTGAGTTCATCTATGATGGCAGAGATTATAACTTATTTGACCACTACTCA 960  
A M P A E F I Y D G R D Y N L F D H Y S  
GCTGTGCCCCAAAGAATCGGGGTTTACACTGCTAAGGACTATGTTGATATAGTAGAGCAC 1020  
A V A Q R I G V Y T A K D Y V D I V E H  
CTGGTGGATCGATGGAAGGTGAAGGAGCTAGCTGGGCTTTCAGCCGAGGGGCGTAAAGCT 1080  
L V D R W K V K E L A G L S A E G R K A  
CAGGACTACTTGTGTTCACTTCCTTCGAGAATTAGAAGGTTAGAGGAGAGAGCGCAAGAA 1140  
Q D Y L C S L P S R Y R R L E E R A Q E  
AAGGCCAAGGAAGCACCCAGTGTCCCATTCAGTTGGATATTTGATAGAGAAGTGAAACTT 1200  
K A K E A P S V P F S W I F D R E V K L  
TAGGTCATGAAATACAGTTAAGACTCCTGCAATGCATTTGAGGAAACAAACACGAAGAAG 1260  
\*  
CTGAATGCCAACTTCTCTTTATATATCCGATGTAATAGAGGTTGTATATGTAACAGGAGG 1320  
AATTGCGTGGCTTTGGTTAGGGTAGCACATGTTTTCTGGATGTGTTGTGTCCTTAAAAAA 1380  
TAATGCCGATAGCGGCAGCTGTGATAGTTTTAGATGTTTGTGTTTCATAATGTCTGTATA 1440  
TCGTTGTACGAGTAGTATGTGTTGTTTTGTTGAAACAATCTTCATATCTTAGTGATAAA 1500  
TGATAATGCTGTGTAGTCATAGTTTTTAGTTTGCAATAAAAAAAAAAAAAAAAAA 1553

FIGURE 2

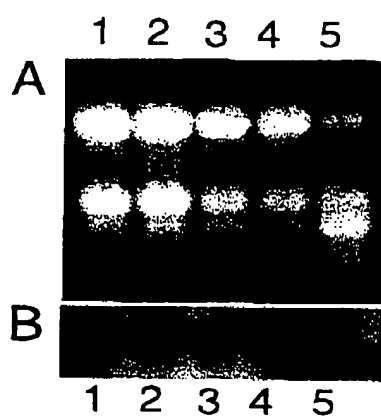


FIGURE 3

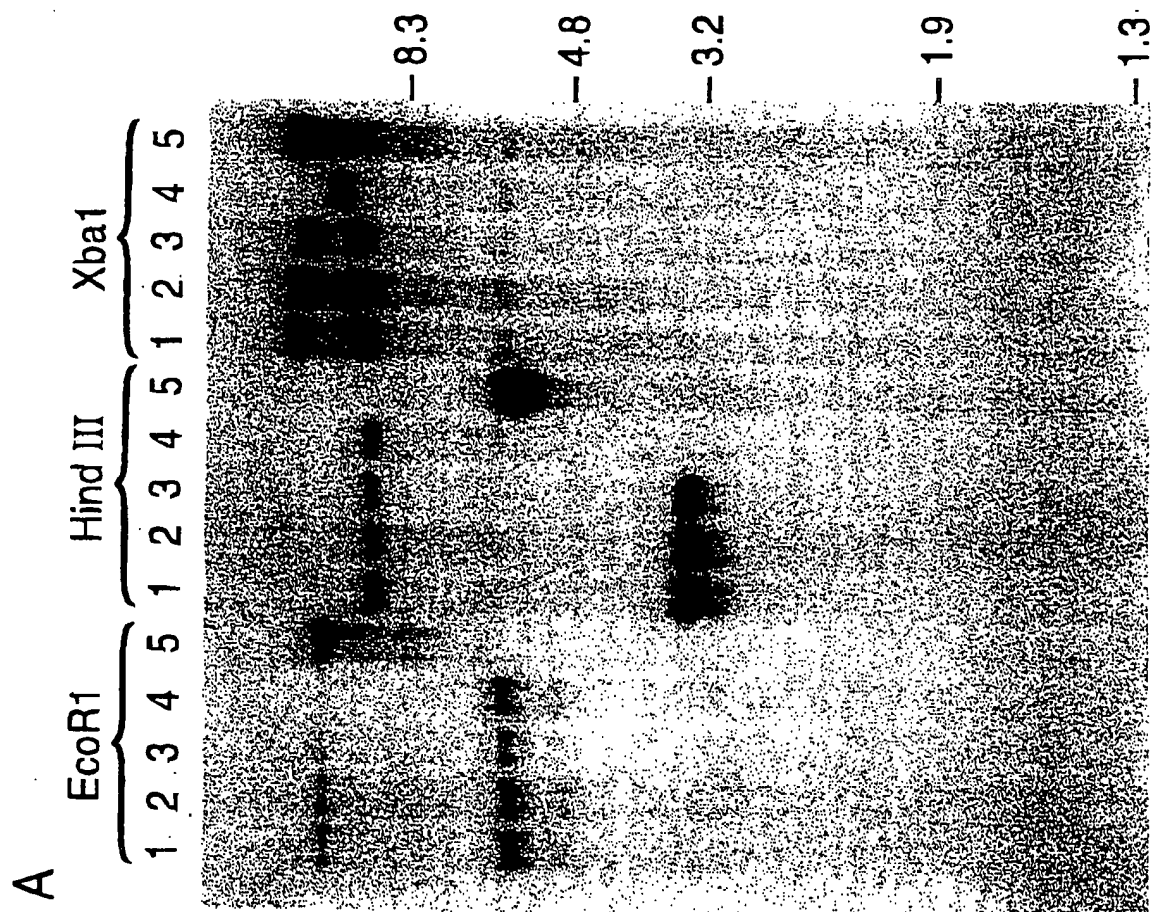


FIGURE 4A

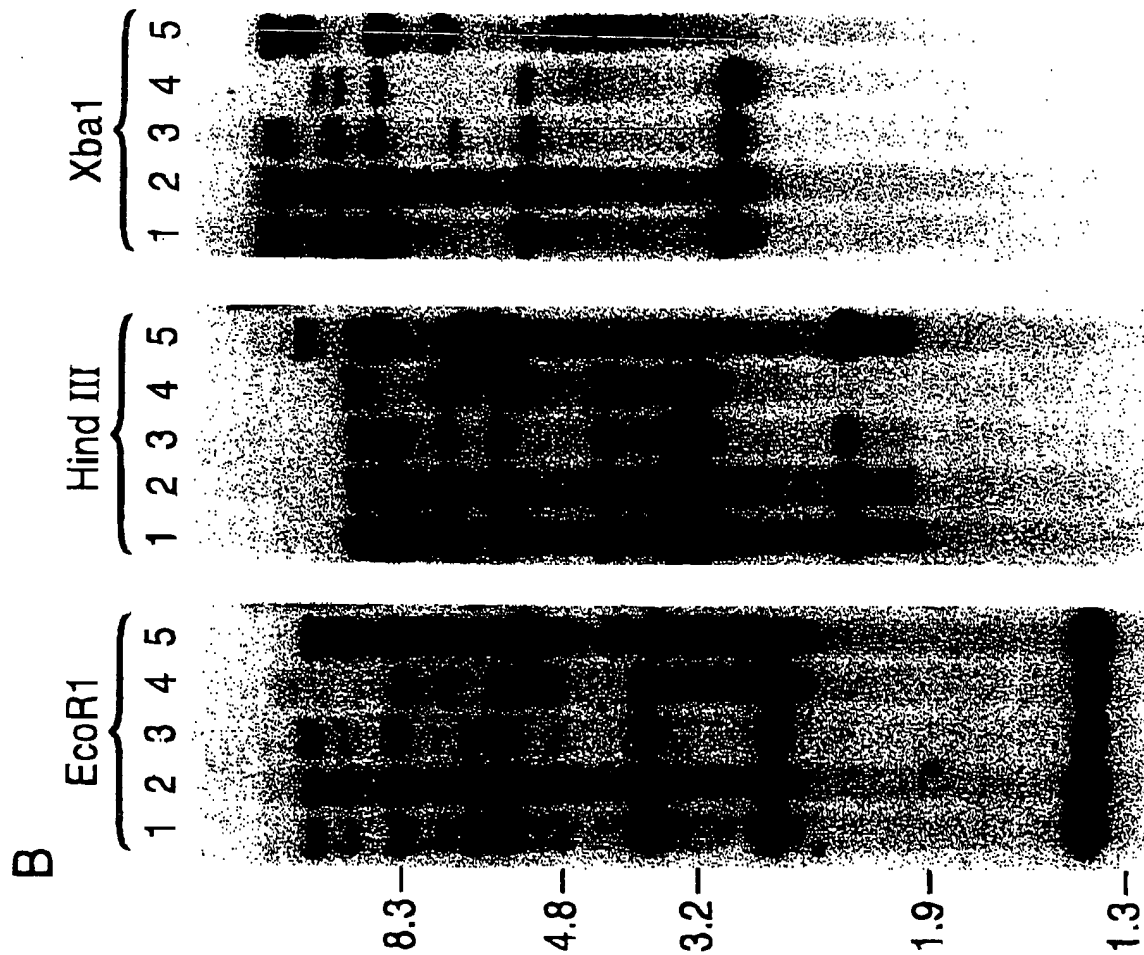


FIGURE 4B

CTCGCCCAAAACCAACACGCCTTCTTTGCGCTCGTGTTCATCACCTGGCGTTAAACTGCT	60
TTCTTTAAAGCCAGCAAAATCGGTGCCGGTGGTAGGATGCCAATTGACGGTATAAAGGAG	120
M G A G G R M P I D G I K E	
GAAAATCGAGGCTCGGTCAATCGAGTTCCGATCGAGAAGCCTCCGTTTACGCTCGGTACAG	180
E N R G S V N R V P I E K P P F T L G Q	
ATCAAGCAAGCCATTCCGCCCCACTGTTTTGCGCGCTCCCTCCTTCGATCCTTCTCCTAC	240
I K Q A I P P H C F R R S L L R S F S Y	
GTGGTCCATGACCTATGCTTAGCCTCTTTCTTTTACTACATTGCAACATCATATTTTCAC	300
dl2A4 primer	
V V H D L C L A S F F Y Y I A T S Y F H	
TTTCTCCCACAACCCTTTTCTACATTGCTTGGCCTGTCTATTGGGTCTCCAAGGTTGC	360
F L P Q P F S Y I A W P V Y W V L Q G C	
ATCCTCACCGGTGTTTGGGTTCATCGCACACGAGTGGGGTACCACGCTTTCAGAGACTAC	420
I L T G V W V I A H E W G H H A F R D Y	
CAATGGGTGACGACACCGTTCGGGTGATCCTTCATTCCGCCCTTTTAGTCCCGTACTTC	480
Q W V D D T V G L I L H S A L L V P Y F	
TCGTGGAAAATCAGTCACCGCGCTCACCCTCGAACACCGGTTCCATGGAGCGTGACGAA	540
S W K I S H R R H H S N T G S M E R D E	
GTATTTCGTGCCCAAAACCAAGTCTAAATTATCATGCTTTGCGAAATACTTAAACAATCCA	600
V F V P K P K S K L S C F A K Y L N N P	
CCCGGTGAGTTCATCTCTTGTAGTCACATTGACTCTTGGTTGGCCTATGTACTTAGCC	660
P G R V L V L V T L T L G W P M Y L A	
TTCAACGTTTCGGGTGCGATACTATGATCGATTAGCTTCCCACTATAACCCTTATGGCCCC	720
F N V S G R Y Y D R L A S H Y N P Y G P	
ATTTACTCCGATCGCGAGAGGCTACAAGTTTACATCTCCGATACTGGTATATTTGCGGTA	780
I Y S D R E R L Q V Y I S D T G I F A V	
ATTTATGTACTTTATAAGATTGCTGCAACAAAAGGGCTGGCTTGGCTTTTATGCACTTAT	840
I Y V L Y K I A A T K G L A W L L C T Y	
GGGGTGCTCTACTTATTGTGAATGCCTTCCTTGTGTTGATCACCTACTTGCAACATAC	900
G V P L L I V N A F L V L I T Y L Q H T	
CACTCGGCATTGCCGCATTATGACTCGTCCGAATGGGATTGGTTGCGAGGAGCATTGTGCG	960
H S A L P H Y D S S E W D W L R G A L S	
ACGATGGATCGAGATTTCCGGGTGTTGAACAAAGTGTTCATAACATCACCGATACGCAT	1020
T M D R D F G V L N K V F H N I T D T H	
GTTGCTCATCACCTCTTCTCAACGATGCCACATTATCATGCAATGGAGGCCACTAAAGCA	1080
V A H H L F S T M P H Y H A M E A T K A	
ATCAAACCAATACTCGGCAAGTATTATCCTTTGACGGGACACCGATTTACAAGGCAATG	1140
I K P I L G K Y Y P F D G T P I Y K A M	
TGGAGGGAGGCAAAAGAGTGCCTTTACGTTGAGCCTGACGTTGGTGGTGGTGGTGGT	1200
W R E A K E C L Y V E P D V G G G G G G	
AGCAAAGGTGTTTTTGGTATCGTAACAAGTTCTAAAGACCGACCAACTGCCTGATAGCT	1260
S K G V F W Y R N K F *	
GGCCGGCGAAATCAACGTAACGTACTTATTAGACTAGTGTTAACTAGGGAAGTTAATA	1320
ATTAATGGTAGGAAAATGTGGAATAGTTGCCTAGTAGTTTTATGTATTAAGTGTGTATT	1380
AATAAACTATATGGTAGAAAAA	1411

FIGURE 5

taaaaaaaaaaggcattttctttcatcttaagagacagcgaggaagccacgaagataata  
 gagtgtattttcaatctccatttttaaggggtgtggaacaatgggtgctggaggcagaatgtc  
 M G A G G R M S  
 gggtccaacgaggtccaaaaaaacccgaattcaactcactgaagcgagttccataactcaaa  
 V P T S P K K P E F N S L K R V P Y S K  
 gccacccttcactctgagtgaaatcaagaaagccatcccaccacactgtttccagcgctc  
 P P F T L S E I K K A I P P H C F Q R S  
 cgttttacgctcattctcatatctcctttacgactttatattggcctctctttttttacca  
 V L R S F S Y L L Y D F I L A S L F Y H  
 tgtggccaccaattactttccctaacccttcctcaggtctctctccaacgtggcttgccctct  
 V A T N Y F P N L P Q A L S N V A W P L  
 ttattggggccatgcaaggttgcattttgaccggcggttggtcatagcccatgaatgtgg  
 Y W A M Q G C I L T G V W V I A H E C G  
 ccaccatgctttcagtgattatcaatggcttgacgacaccgtgggccttatcctccactc  
 H H A F S D Y Q W L D D T V G L I L H S  
 ttctctcttagttccatattttctcttggaatatagccaccggcgctcaccattctaacac  
 S L L V P Y F S W K Y S H R R H H S N T  
 cggttccctcgaaagggatgaagtgttcgttcccaagaaaaaatctggtttaagatgggtg  
 G S L E R D E V F V P K K K S G L R W W  
 ggccaaacacttcaacaatccaccgggtcggtttctgtcaatcaccattcaacttacctt  
 A K H F N N P P G R F L S I T I Q L T L  
 tggttgcccgctttacttagctttcaacgttgccggccggccttacgacaggttcgcttg  
 G W P L Y L A F N V A G R P Y D R F A C  
 ccactatgacccttacggccccatattttccgaccgggaacgactccaaatctatatctc  
 H Y D P Y G P I F S D R E R L Q I Y I S  
 tgacgccggcgctcctcgctgtcgcctatgcgctctaccgtctcgtgttgccaaaggggt  
 D A G V L A V A Y A L Y R L V L A K G V  
 aggttggggttattagcggtttatgggggtgccattattgggtggttaacgccttcttagtaat  
 G W V I S V Y G V P L L V V N A F L V M  
 gatcacgtattttgcaacacactcaccatctttgccgcactatgattcctcggagtgggga  
 I T Y L Q H T H P S L P H Y D S S E W D  
 ctggatgagaggagctttatcaactgtggacagagattatgggatttttaacaagggtttt  
 W M R G A L S T V D R D Y G I L N K V F  
 ccataacataaccgacactcatgtggctcatcattttgttttcgacaatgcctcactatca  
 H N I T D T H V A H H L F S T M P H Y H  
 tgccatgggtggccaccaaggcgataaaagcccatattgggggaataactatcagttcgatgg  
 A M V A T K A I K P I L G E Y Y Q F D G  
 gatgcctgtctataaggcgatatggagggaggcggaaggagtgctctacgttgaaccaga  
 M P V Y K A I W R E A K E C L Y V E P D  
 tgagggcgacaaggataaaagggtgtgttttggttagaaacaagctttaaatatttgcatt  
 E G D K D K G V F W F R N K L \*  
 ttaccttaggcattgttctagtcgtttgatgttttaaggatatttttagccgacatacttggt  
 tttcctttttgggacttttttagctttgtattttgcagacaataatcttggtcactattaaa  
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FIGURE 6

## FIGURE 7



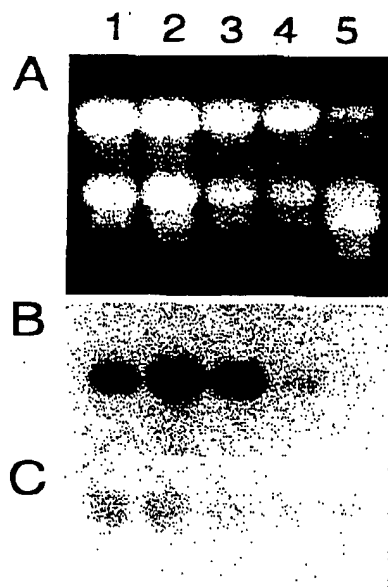


FIGURE 8

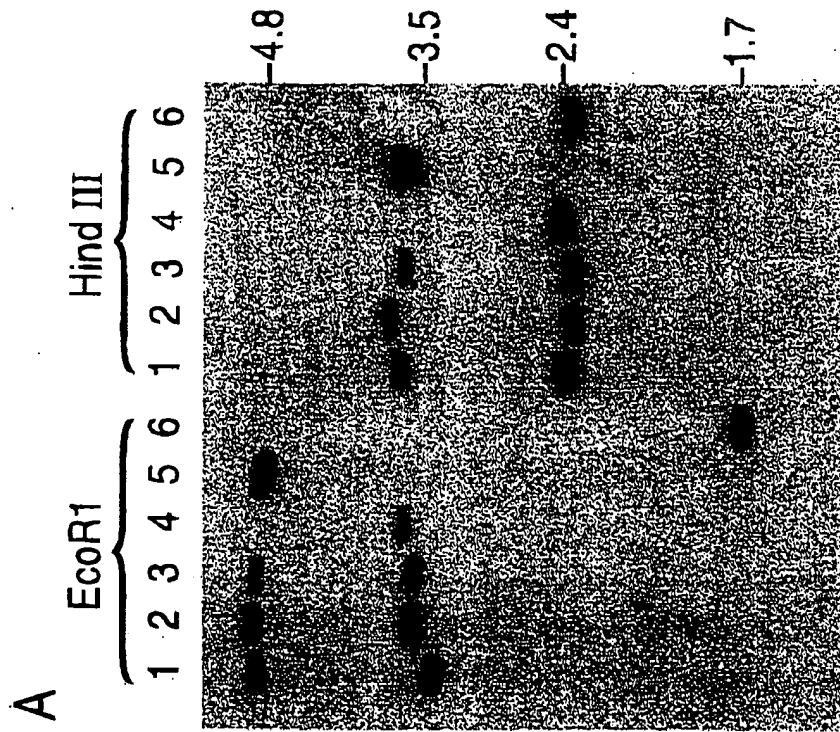


FIGURE 9A

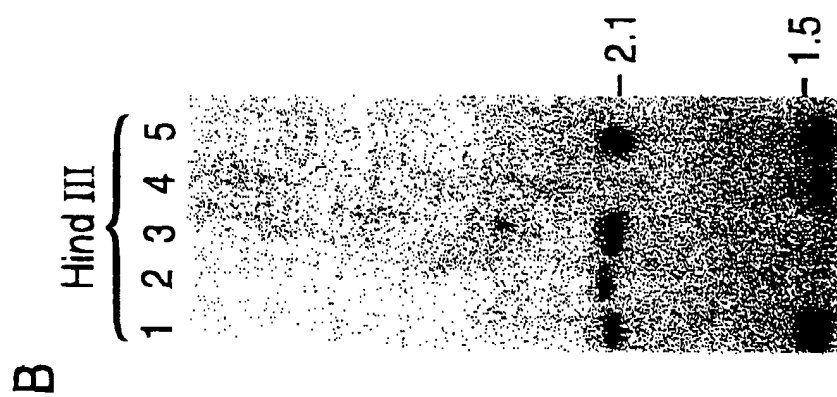


FIGURE 9B

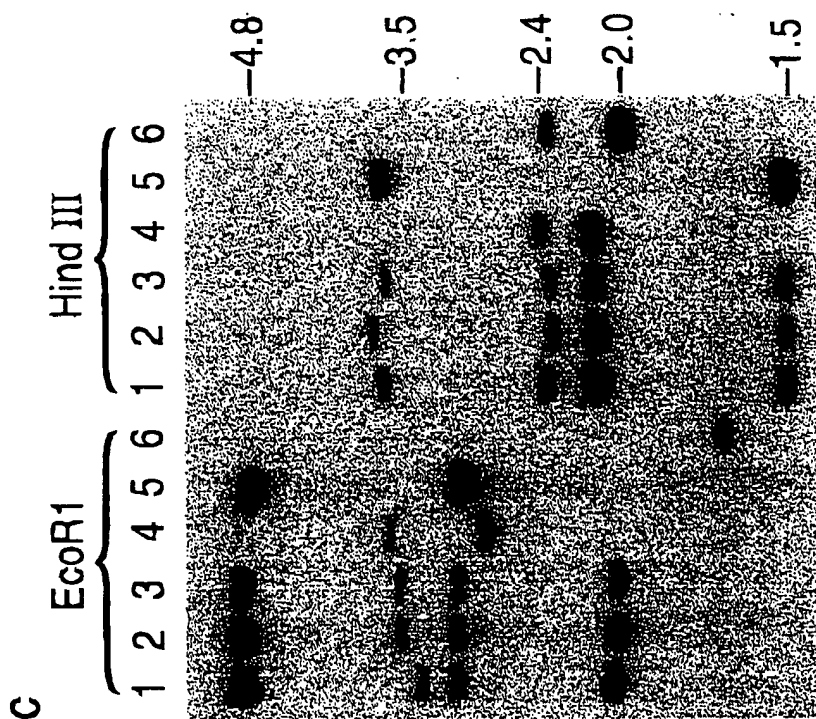


FIGURE 9C

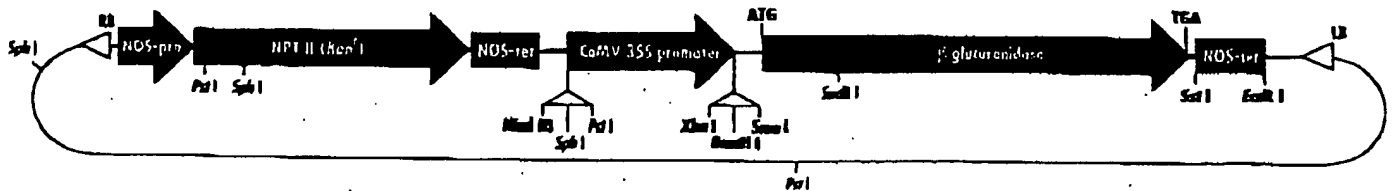
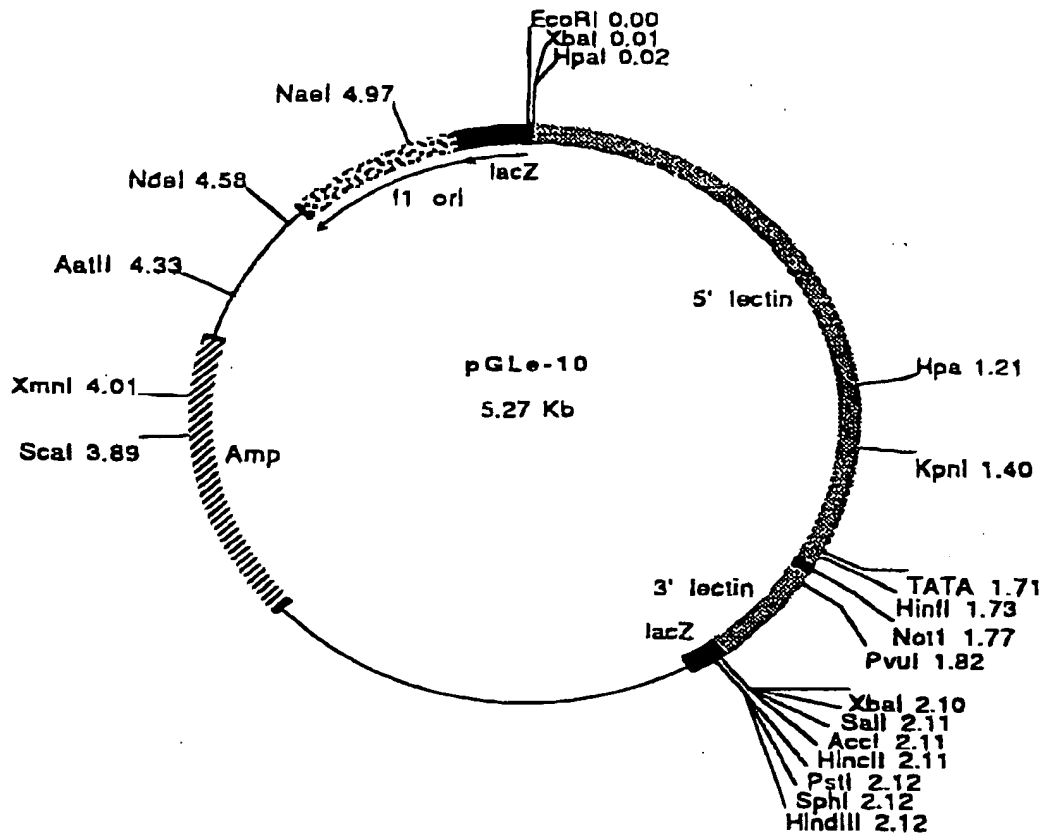


FIGURE 10

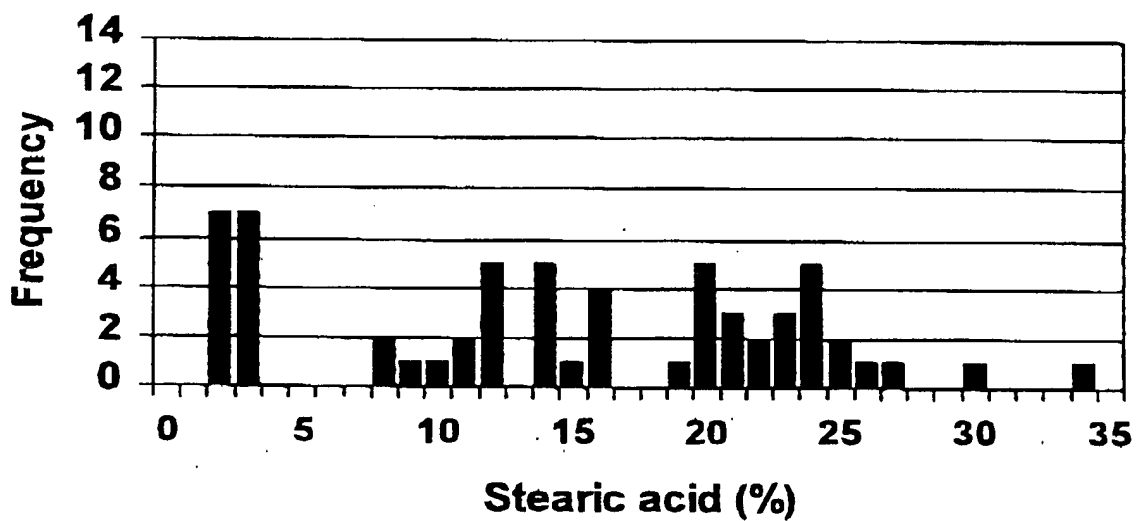
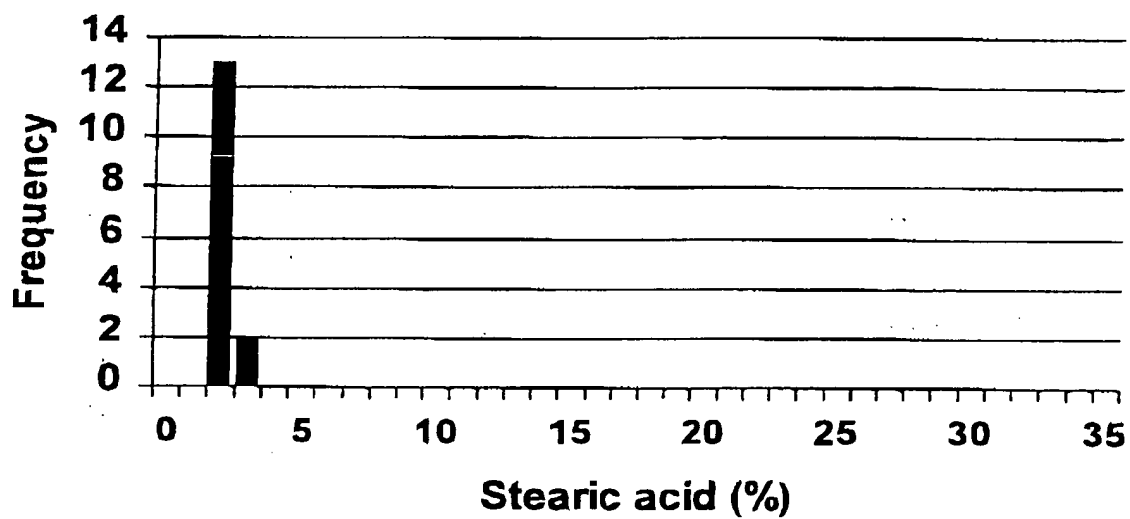


FIGURE 11

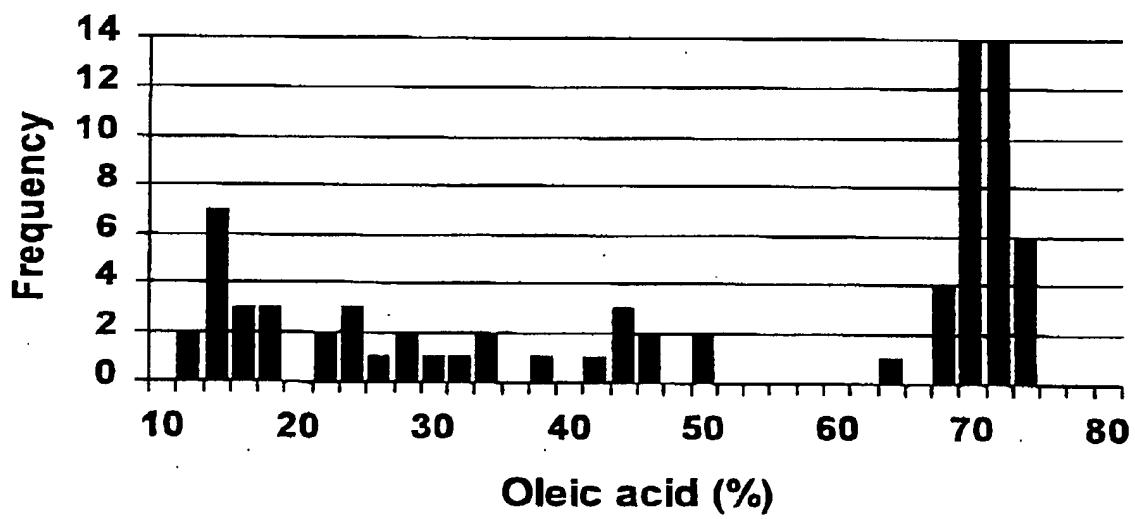
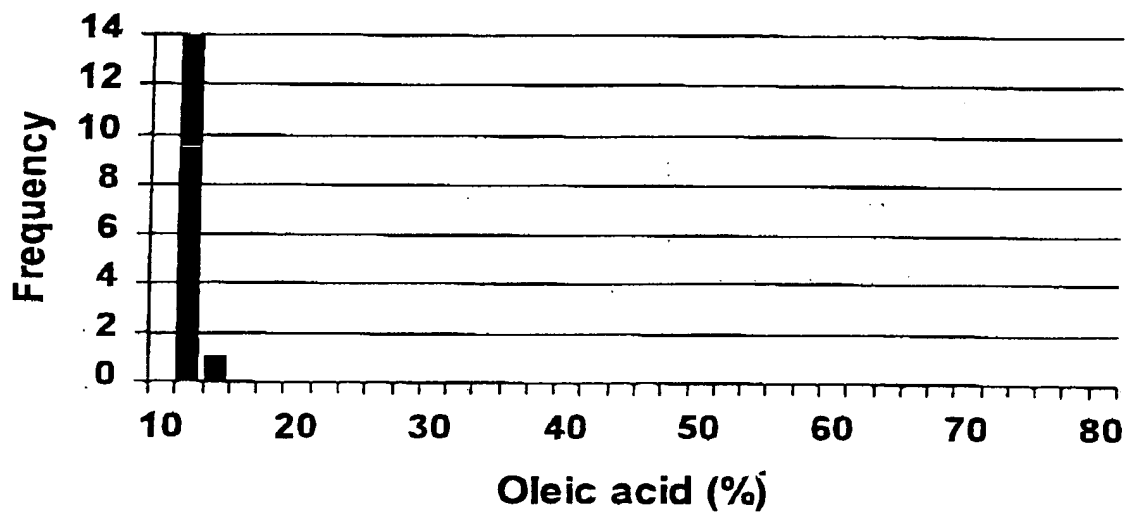


FIGURE 12

